Program Outcomes

- Upon completion of the AS in Environmental Science, students are able to analyze natural phenomena using appropriate mathematical and computational tools employed in the physical and biological sciences.
- Upon completion of the AS in Environmental Science, students are able to analyze natural phenomena using fundamental scientific principles in the physical and biological sciences.
- Upon completion of the AS in Environmental Science, students are able to conduct a literature search, identify and evaluate legitimate sources, and clearly communicate the results.
- Upon completion of the AS in Environmental Science, students are able to perform scientific experiments, mathematically analyze the data, and evaluate the results.

Required Core: (43 Units)

BIO 1A (General Botany) 5
BIO 1B (General Zoology) 5
CHEM 1A (General College Chemistry I) 5
CHEM 1B (General College Chemistry II) 5
ECON 1 (Principles of Microeconomics) 3
EVST 5 (Energy and Sustainability) 3
GEOL 1 (Physical Geology) 3
GEOL 1L (Physical Geology Laboratory) 1
MATH 1 (Calculus I) 5
PHYS 2A (Introduction to Physics I) 4
PHYS 2B (Introduction to Physics II) 4

Program-Based GE^: (3 Units)

BIO 40 (Humans and the Environment) 3

Total Units for the Major 43

^Required if a student uses the Las Positas College General Education Pattern for Associate of Science (AS) Degree

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Science (AS) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

ENVIRONMENTAL STUDIES

The degree program in Environmental Studies is a multidisciplinary program which provides students the academic foundation for understanding the interaction of humans and the natural environment from scientific, technological, political, environmental, social, and economic perspectives. Accordingly, this program features a diverse array of classes designed for students transferring to a specialized program in environmental studies at many four year institutions. In completing the AA degree, students may study geology, geography, ecology, biology, chemistry, mathematics, philosophy, sociology, ethics, political science, and economics, as well as energy and sustainability.

Programs of Study

Degrees:

- AA – Environmental Studies

Career Opportunities

With further study, career opportunities include environmental planners, and environmental consultants as well as employment in related areas such as water, air, and forestry resource management, sustainable finance, energy auditing, transportation analysis, waste management, urban planning, sustainable construction, environmental impact analysis, and environmental remediation. Environmental studies graduates also work in fields not traditionally associated with the environment as sustainability becomes a necessary component of both public and private sectors of the economy.

AA – Environmental Studies

About the Degree

The Associate of Arts in Environmental Studies is a multi-disciplinary program which provides students the academic foundation for understanding the scientific and technological basis of energy technology, as well as the political, social, and economic factors that underlie energy policy choices. This transferable program features a diverse array of classes in the degree pattern from the natural and physical sciences in such associated disciplines as geology, geography, ecology, chemistry, statistics, philosophy, and economics. Students can further expand this foundation by selecting electives from other disciplines such as anthropology and political science.

Career Opportunities

Career opportunities include Environmental Planner, Environmental Consultants, and Greenhouse Gas Emissions Permitting Consultants. Graduates will also have the potential to specialize in related areas such as water, air and forestry resources management, finance, energy and transportation analysis, waste management, low impact construction, and environmental remediation.

Program Outcomes

- Upon completion of the AA in Environmental Studies, students are able to analyze natural phenomena using fundamental scientific principles in the physical and biological sciences.
- Upon completion of the AA in Environmental Studies, students are able to conduct a literature search, identify and evaluate legitimate sources, and clearly communicate the results.
- Upon completion of the AA in Environmental Studies, students are able to construct arguments for environmental policy based on a sociopolitical and scientific understanding of human interactions with the environment.
- Upon completion of the AA in Environmental Studies, students are able to perform scientific experiments, analyze the data, and evaluate the results.

Required Core: (30 Units)

BIO 30 (Introduction to College Biology).....4
BIO 40 (Humans and the Environment).....3
CHEM 31 (Introduction to College Chemistry).....4
ECON 1 (Principles of Microeconomics).....3
EVST 5 (Energy and Sustainability).....3
GEOL 1 (Physical Geology).....3
GEOG 1 (Introduction to Physical Geography).....3
MATH 40 (Statistics and Probability).....4
PHIL 2 (Ethics).....3

List A: Select Two (6-8 Units)

ANTR 1 (Biological Anthropology).....3
ANTR 2 (Introduction to Archaeology).....3
ANTR 3 (Cultural Anthropology).....3
BIO 60 (Marine Biology).....4
BIO 70 (Field Biology).....3
GEOG 15 (Introduction to GIS).....3
GEOL 2 (Historical Geology with Lab).....4
GEOL 5 (Environmental Geology: Hazards & Disasters).....3
GEOL 7 (Environmental Geology: Resources, Use Impact & Pollution).....3
GEOL 12 (Introduction to Oceanography).....3
HUMN 6 (Nature and Culture).....3
POLI 7 (Introduction to American Government).....4
POLI 12 (Introduction to California State and Local Government).3
SOC 5 (Introduction to Global Studies) or GS (Introduction to Global Studies),.....3

Total Units for the Major 36-38

The Associate Degree is conferred upon those students who complete the required 60 or more semester units of the degree pattern with a grade-point average of 2.0 or better, of which 12 units must be earned at Las Positas College. In addition, students must complete a General Education pattern in order to earn a degree: see the Las Positas College General Education Pattern for Associate of Arts (AA) Degree, California State University General Education-Breadth, or the Intersegmental General Education Transfer Curriculum (for CSU) patterns for listing of areas and courses. Double counting courses in GE and the major is permissible. The number of units that may be double counted will depend on the entry point to the degree program, the optional course(s) taken, and the GE pattern selected. Elective units are degree applicable. Consult with an adviser or a counselor to plan the courses necessary to achieve your academic goal.

Environmental Studies Courses (EVST)

EVST 5 ENERGY AND SUSTAINABILITY 3 UNITS

Introduction and exploration of Energy production, utilization, management, and the effects on society and the environment. This course will also compare and contrast current and future renewable and non renewable methods of energy generation, auditing, and conservation. Strongly Recommended: Eligibility for ENG 1A. 54 hours lecture. AA/AS GE: II. Transfer: CSU, UC; CSU GE: B1; IGETC: 5A.

Degree Applicable, Credit Grading Option: OP

ETHNIC STUDIES

Ethnic Studies is the interdisciplinary study of the unique experiences and histories of major American racial ethnic groups. Rooted in social justice and anti-racist tradition, Ethnic Studies critically analyzes the current issues facing communities of color and the intersection of racial ethnic identities with other forms of social identity such as class, sexuality, religion, indigeneity, and immigration status.

Ethnic Studies Courses (ETHS)

ETHS 5 INTRODUCTION TO CROSS-CULTURAL PSYCHOLOGY 3 UNITS

This course is an introduction to cross-cultural identities, which focuses on the way culture influences human behavior and shapes mental processes. We will study a variety of ethnic, social, and cultural group developmental norms and the extent of influence these norms may have on an individual. This course seeks to strengthen diversity awareness and knowledge by bringing awareness to the importance of engaging in difficult discussions. This course will review a broad range of theories and research findings regarding cultural influences on human behavior and cognitive process. Topics covered include development of an individual worldview, identity development, stereotypes, prejudice, discrimination, racism, sexism, heterosexism, ableism, ageism, immigration & acculturation, privilege, oppression and cross-cultural issues in psychological literature. Students who have completed, or are enrolled in PSYC 21 may not receive credit. Strongly Recommended: PSYC 1 with a minimum grade of C. 54 hours lecture. AA/AS GE: IV, AC. Transfer: CSU, UC; CSU GE: D; IGETC: 4..

Degree Applicable, Credit Grading Option: OP

ETHS 6 INTRODUCTION TO RACE AND ETHNICITY 3 UNITS

Racial and ethnic relations in the United States. Examines the cultural, political, and economic practices and institutions that